

ABSTRACT

An organic electroluminescent device including: at least two or more emitting layers (4), (8) between an anode (10) and a cathode (2), and an intermediate electrode layer (6) being interposed between emitting layers (4), (8), the intermediate electrode layer (6) being a single layer or a multilayer structure of a plurality of layers, at least one of the layers (6) including a semiconductive material having a resistivity of 0.001 to 10,000 $\Omega \cdot \text{cm}$. The device and a display using the same have a high efficiency and long life time.